

## Coltrain, Katrina

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**From:** Coltrain, Katrina  
**Sent:** Monday, July 06, 2015 11:22 AM  
**To:** Kady, Thomas; Powell, Greg; Prince, George  
**Cc:** 'Downham, Todd'; Werkema, Dale  
**Subject:** RE: Wilcox Refinery Geophysical Approach and Budgetary estimate  
**Attachments:** ERT Geophysics proposal draft 7-6-15.pdf; Wilcox Property ownership.pdf; 1941.pdf

Team, I have reviewed the geophysical approach and have the following questions and comments. If you have any questions regarding my review, please give me a call or send an email.

Thanks

### EM31 and EM61 surveys:

I have no comments on the use of these surveys. I agree that they should be used in the process and north process areas. We do not have full access to the north process area. See attached pdf, reference property 2 and 13. We are working to identify the owner for property 2, and working to get a signed access agreement with property 13. We may need to alter the tracks just a bit if we are not able to get access by field time. Specifically, the northern end of the green track line may need to be adjusted..

The north process area is also thickly vegetated. This may slow progress.

If needed, we have access to a triangle wedge just north of the Process area. Indicated with yellow.

### MASW Seismic

The MASW is planned for the Tank Farm Area. This area includes 4 properties, only one of which the owner has agreed to mow. The other three properties have homes and are currently occupied. Refer to the Wilcox Property ownership pdf attached to this email.

The property furthest east (Property 6) has an old tank in the front yard. Sampling of this property confirmed the presence of oil material at depths about 2-8ft.

The owner of the property just to the west (Property 5) has indicated that at the back of the property there is waste material. I have not verified that surface waste exists; however, an old tank was located on the back of this property.

Areas of interest are indicated in orange. We are interested in these areas and preferential pathways associated with these tank locations.

The property (Property 4) next to the field has a fenced pit. We are interested in this area and preferential pathways associated with the pit. Area indicated in light blue. Refer to the 1941 pdf attached to this email.

Aerial photographs indicate there were two areas on the east side of the drainage (Property 6) where tanks were either removed or the areas were prepped for tanks that were never installed. We need to investigate and hopefully determine that the eastern portion of the site has not been impacted by waste material. Refer to the 1941 pdf attached to this email.

The text indicates that the initial effort will focus on the tracks identified in the figure and marked as blue and pink. Once completed, then additional tracks across the properties will be investigated. I have included some

suggested locations in black that can be used to address the issues identified above. Refer to the ERT Geophysics proposal draft 7-6-15 pdf attached to this email.

1. Can the number of tracks cited for the southwest corner of the field (Property 7) be reduced so that additional tracks across other parts of the site can be done?
2. When you have a better idea of the dates, we will need to coordinate with the property owners/tribes to let them know what we are planning and when.

Katrina Higgins-Coltrain  
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**From:** Kady, Thomas  
**Sent:** Wednesday, July 01, 2015 2:06 PM  
**To:** Powell, Greg; Prince, George  
**Cc:** Coltrain, Katrina  
**Subject:** Fwd: Wilcox Refinery Geophysical Approach and Budgetary estimate

George/Greg - Comments on this? I've included Katrina on this email, as time is short and we're all in the field. Tom

Sent from my iPhone

Begin forwarded message:

**From:** "Leuser, Richard M" <[richard.m.leuser@lmco.com](mailto:richard.m.leuser@lmco.com)>  
**Date:** June 30, 2015 at 4:45:28 PM EDT  
**To:** "Kady, Tom ([Kady.Thomas@epa.gov](mailto:Kady.Thomas@epa.gov))" <[Kady.Thomas@epa.gov](mailto:Kady.Thomas@epa.gov)>  
**Cc:** "Prince, George ([Prince.George@epa.gov](mailto:Prince.George@epa.gov))" <[Prince.George@epa.gov](mailto:Prince.George@epa.gov)>, "George Prince ([Prince.George@epamail.epa.gov](mailto:Prince.George@epamail.epa.gov))" <[Prince.George@epamail.epa.gov](mailto:Prince.George@epamail.epa.gov)>, "[rleuser@rcn.com](mailto:rleuser@rcn.com)" <[rleuser@rcn.com](mailto:rleuser@rcn.com)>  
**Subject:** Wilcox Refinery Geophysical Approach and Budgetary estimate

Tom,

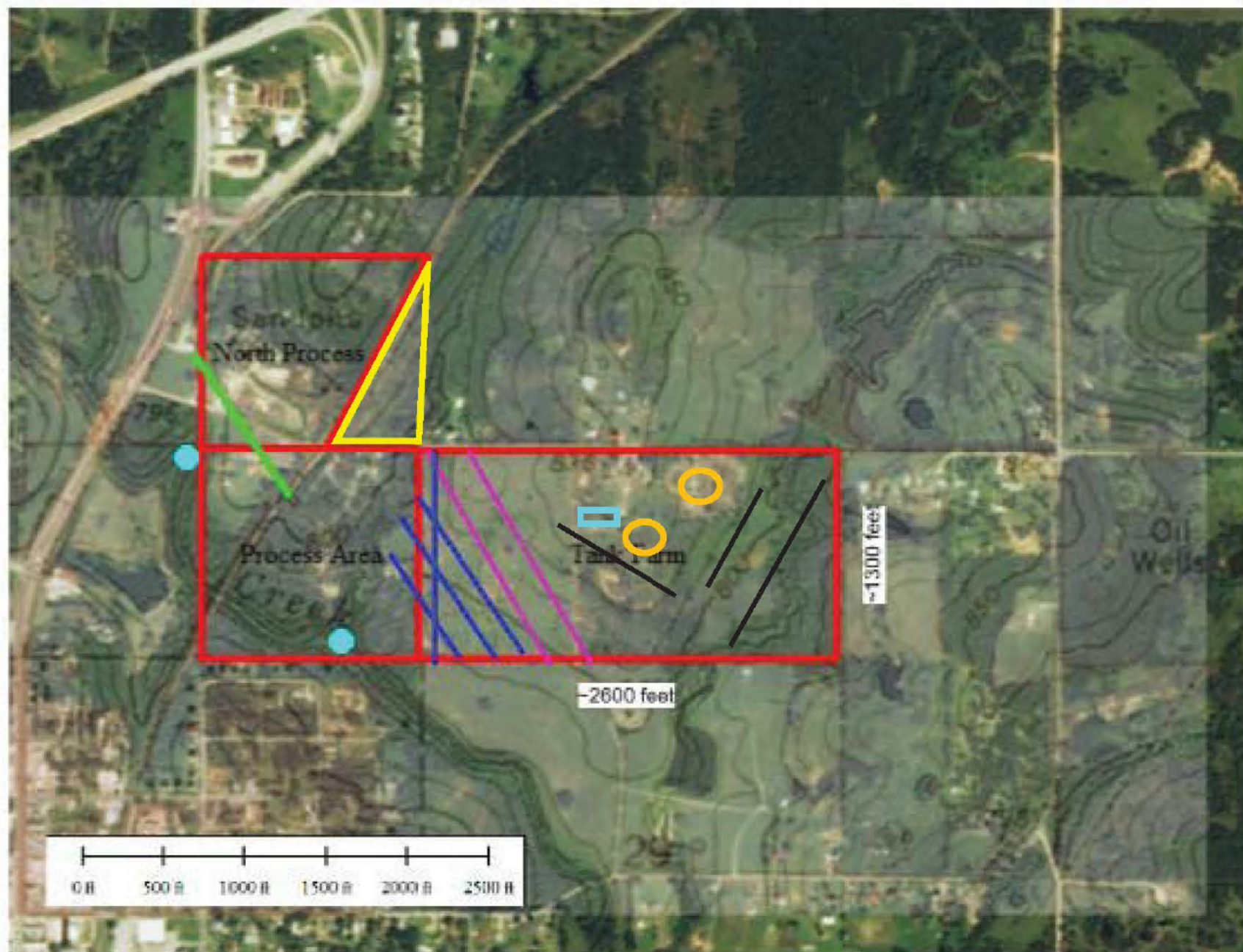
Attached is the Geophysical Approach, a figure showing proposed traverses and two cost estimates. The first is for the geophysical survey with all ODC's, eight field staff and their travel and expenses. The second is for an additional four people to add two additional field crews to staff the EM Equipment. With time growing short, I've drafted the QAPP and have sent it over to Beth to review and edit, after which I'll have Donna finish it up so it's ready once the Work Assignment arrives. Have a look and let me know if I can be of further service on this.

Have a great day!

*Richard M. Leuser, PE*  
*Deputy Program Manager*

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Suggested lines to concentrate on to determine pathway from source area to seep.

- 1500 feet long traverse
- Shorter than 1500 feet

● Location of Seeps

— May be possible in the process area to investigate the seep





Site in Sec 20&29-16N-9E  
Creek County  
1"= 660' 8/19/1941  
0 330 660 1,320  
Feet



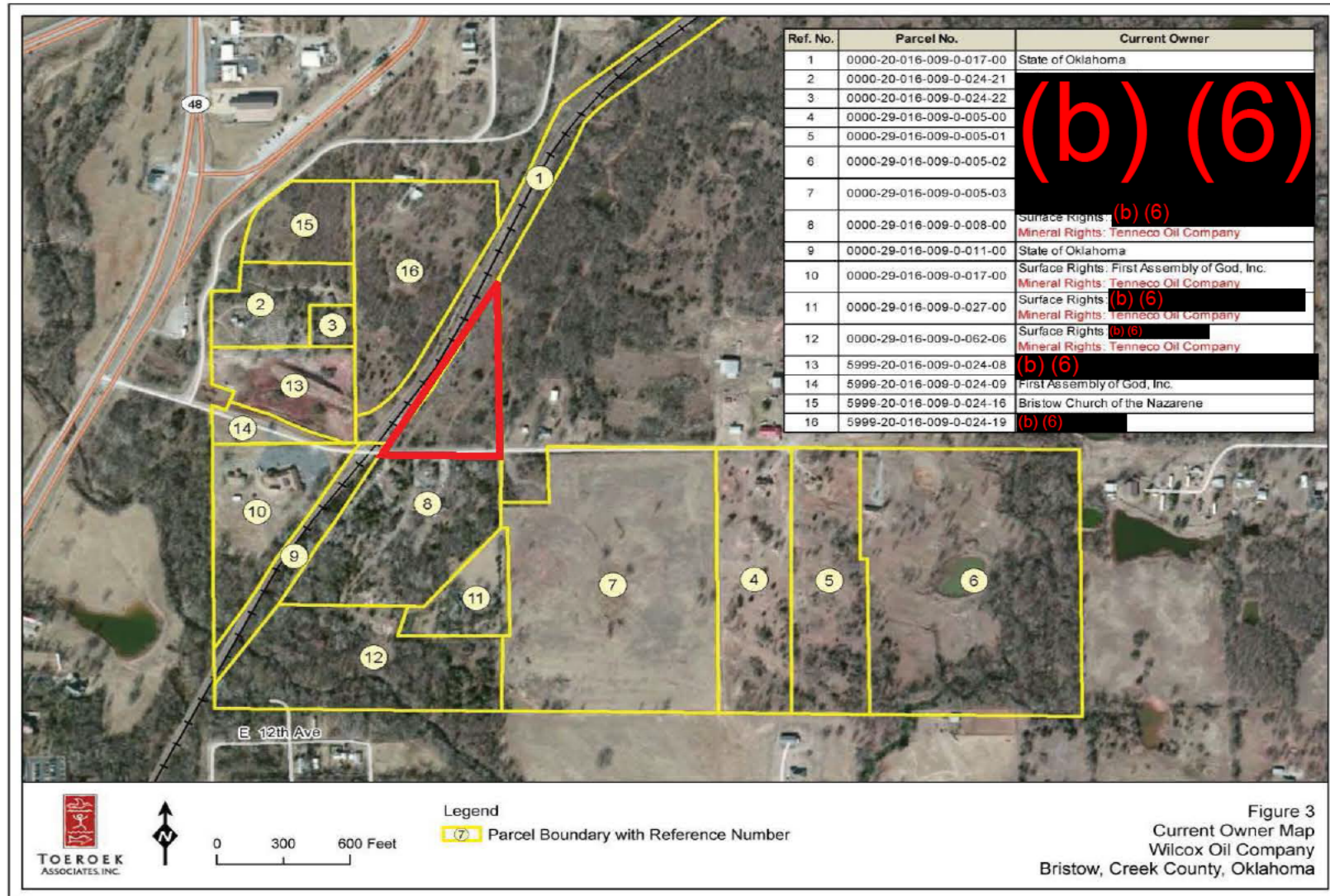


Figure 3 – Current Owner Map